



Research Funding Opportunity

Program Title	Vehicle Technology Directorate – ARL Basic Scientific Research
Solicitation/RFP Code	BAA W911NF-07-R-0001
Funding Organization(s)	U. S. Army Research Laboratory
Funding Amount(s)	Undefined – proposal & area specific
Application Deadlines	Continuous through 30 September 2011

Program Summary

The Vehicle Technology Directorate (VTD) develops the technologies needed to: extend the life of current combat vehicles; provide components for future systems; and shorten the design and development cycle by enabling flexible, affordable manufacture of the next generation platforms. VTD is focusing its research towards development of lighter, faster and more fuel-efficient air and ground vehicles, improved mobility for unmanned systems, and development of new enabling mechanics technologies for microsystems. Research is directed at all aspects of vehicle loads and dynamics, structural dynamics, engine and power generation, and power transfer and systems. Vehicle loads and dynamics research is directed at impact dynamics, structural dynamics, and aeroelasticity. Vehicle structural dynamics research is directed at structures, fatigue and fracture and non-destructive evaluation. Vehicle engine and power generation research is directed at internal combustion and gas turbine concepts and emphasizes light weight, fuel efficiency, power density, maintainability and reliability. Vehicle power transfer and power systems research is directed at drive trains, gearing, shafting, vibration monitoring, seals and transmission concepts, as well as life prediction methodologies. Unmanned mobility research is directed at robotic autonomous mobility, small heavy fuel engines, and large disturbance locomotion systems. Microsystems research is directed at developing a fundamental understanding of high-separation low-Reynolds number aeromechanics, multifunctional and biologically inspired structures, and distributed energy conversion for micro-propulsion. VTD topics shall be included in this BAA as funding is programmed.

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To view or download the full the full BAA go here: [W911NF-07-R-0001](http://www.acq.osd.mil/arl/w911nf-07-r-0001)